

05-11-07

PTO/SB/17 (07-06)

IFED \$

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL

For FY 2006

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 180

Complete if Known

Application Number	09/724,685
Filing Date	November 28, 2000
First Named Inventor	Reed, Steven G.
Examiner Name	Swartz, Rodney P.
Art Unit	1645
Attorney Docket No.	014058-008561US

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify):
☒ Deposit Account Deposit Account Number: 20-1430 Deposit Account Name: Townsend and Townsend and Crew LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee
☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Small Entity	Fee (\$)	Small Entity	Fee (\$)	Small Entity	Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Small Entity	Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180
Total Claims	Extra Claims	Fee (\$)
-20 or HP =	x	=
Indep. Claims	Extra Claims	Fee (\$)
-3 or HP =	x	=

HP = highest number of total claims paid for, if greater than 20
HP = highest number of independent claims paid for, if greater than 3

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets - 100 = Extra Sheets / 50 = Number of each additional 50 or fraction thereof Fee (\$)

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)
Other (e.g., late filing surcharge): Submission of Information Disclosure Stmt 180

SUBMITTED BY

Signature		Registration No. (Attorney/Agent)	54,111	Telephone	415-576-0200
Name (Print/Type)	Chuan Gao			Date	May (8), 2007

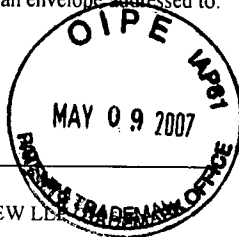
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

On May 9, 2007

TOWNSEND and TOWNSEND and CREW LLP

By: Mark T. Davis
Mark T. Davis



PATENT
Attorney Docket No.: 014058-008561US
Client Reference No.: 411C13

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Steven G. Reed et al.

Application No.: 09/724,685

Filed: November 28, 2000

For: COMPOUNDS AND METHODS
FOR IMMUNOTHERAPY AND
DIAGNOSIS OF TUBERCULOSIS

Examiner: Swartz, Rodney P.

Art Unit: 1645

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER
37 CFR §1.97 and §1.98

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A are being called to the attention of the Examiner. Copies of the references [in compliance with the requirements of 37 CFR §1.98(a)(2)] are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,




Chuan Gao
Reg. No. 54,111

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60967686 v1

Substitute for form 1449A&B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	09/724,685
				Filing Date	November 28, 2000
				First Named Inventor	Reed, Steven G.
				Art Unit	1645
				Examiner Name	Swartz, Rodney P.
Sheet	1	of	3	Attorney Docket Number	014058-008561US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/RS/	AA	US-4,876,089	10-24-1989	Luciw et al.	


FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	AB	WO	92/16628	A1	10-01-1992			<input type="checkbox"/>
	AC	WO	92/21758	A1	12-10-1992			<input type="checkbox"/>
	AD	WO	94/00493	A1	01-06-1994			<input type="checkbox"/>
	AE	WO	97/09428	A2	03-13-1997			<input type="checkbox"/>
	AF	WO	97/09429	A2	03-13-1997			<input type="checkbox"/>
	AG	EP	0 419 355	A1	03-27-1991			<input type="checkbox"/>
	AH	HU	158035	A	03-01-1971		English abstract attached	<input checked="" type="checkbox"/>
	AI	RU	2024021	C1	11-30-1994		English abstract attached	<input checked="" type="checkbox"/>


NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/RS/	AJ	ANDERSON, Peter; "The T Cell Response to Secreted Antigens of Mycobacterium tuberculosis"; 1994, <u>Immunobiol.</u> , Vol. 191, pp. 537-547.	<input type="checkbox"/>
/RS/	AK	ANDERSON, Ase Bengard et al.; "Structure and Mapping of Antigenic Domains of Protein Antigen b, a 38,000-Molecular-Weight Protein of <i>Mycobacterium tuberculosis</i> "; 1989, <u>Infection and Immunity</u> , Vol. 57, No. 8, pp. 2481-2488.	<input type="checkbox"/>
/RS/	AL	DORAN, T.J. et al.; "Characterisation of a novel repetitive DNA sequence from <i>Mycobacterium bovis</i> "; 1992, <u>FEMS Microbiology Letters</u> , Vol. 96, pp. 179-186.	<input type="checkbox"/>
/RS/	AM	HORWITZ, Marcus A. et al.; "Protective immunity against tuberculosis induced by vaccination with major extracellular proteins of <i>Mycobacterium tuberculosis</i> "; 1995, <u>PNAS</u> , Vol. 92, pp. 1530-1534.	<input type="checkbox"/>

Examiner Signature	/Rodney Swartz/	Date Considered	08/05/2007
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

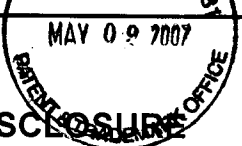
Substitute for form 1449A&B/PTO				Complete if Known	
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Sheet	2	of	3	Attorney Docket Number 014058-008561US	

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	AN	LOWRIE, Douglas B. et al.; "Towards a DNA vaccine against tuberculosis"; 1994, <u>Vaccine</u> , Vol. 12, No. 6, pp. 1537-1540,	<input type="checkbox"/>	
	AO	MAHAIRAS, Gregory G. et al.; "Molecular Analysis of Genetic Differences between <i>Mycobacterium bovis</i> BCG and Virulent <i>M. bovis</i> "; 1996, <u>Journal of Bacteriology</u> , Vol. 178, No. 5, pp. 1274-1282.	<input type="checkbox"/>	
	AP	MOOS, Malcolm Jr.; "Isolation of Proteins for Microsequence Analysis"; 2000, <u>Current Protocols in Molecular Biology</u> , pp. 10.19.1-10.19.12.	<input type="checkbox"/>	
	AQ	ROMAIN, F. et al.; "Preparation of Tuberculin Antigen L"; 1985, <u>Ann. Inst. Pasteur/Microbiol.</u> , Vol. 136B, pp. 235-248.	<input type="checkbox"/>	
	AR	SHINNICK, Thomas M.; "The 65-Kilodalton Antigen of <i>Mycobacterium tuberculosis</i> "; 1987, <u>Journal of Bacteriology</u> , Vol. 169, No. 3, pp. 1080-1088.	<input type="checkbox"/>	
	AS	St. PIERRE, Rebecca et al.; "A refined vector system for the in vitro construction of single-copy transcriptional or translational fusions to <i>lacZ</i> "; 1996, <u>Gene</u> , Vol. 169, pp. 65-68.	<input type="checkbox"/>	
	AT	YAMAGUCHI, Ryuji et al.; "Cloning and Characterization of the Gene for Immunogenic Protein MPB64 of <i>Mycobacterium bovis</i> BCG"; 1989, <u>Infection and Immunity</u> , Vol. 57, No. 1, pp. 283-288.	<input type="checkbox"/>	
	AU	YOUNG, Douglas B. et al.; "Screening of a Recombinant <i>Mycobacterium</i> DNA Library with Polyclonal Antiserum and Molecular Weight Analysis of Expressed Antigens"; 1987, <u>Infection and Immunity</u> , Vol. 55, No. 6, pp. 1421-1425.	<input type="checkbox"/>	
	AV	FSIHI, Hafida et al.; "The <i>Mycobacterium leprae</i> genome: systematic sequence analysis identifies key catabolic enzymes, ATP-dependent transport systems and a novel <i>polA</i> locus associated with genomic variability" 1995, <u>Molecular Microbiology</u> , Vol. 16, No. 5, pp. 909-919.	<input type="checkbox"/>	
	AW	Nucleotide Sequence AF2122/97, 1 page. 2003	<input type="checkbox"/>	
AX	Nucleotide Sequence CDC1551, 2 pages. 2004	<input type="checkbox"/>		

Examiner Signature	/Rodney Swartz/	Date Considered	08/05/2007
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Sheet	3	of	3	Attorney Docket Number	014058-008561US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
/RS/	AY	NCBI AD000020 gi: 1717739 Dec. 10, 1996, 10 pages.	<input type="checkbox"/>	
/RS/	AZ	EMBL Database Entry No. U34848, 5 pages. 1996	<input type="checkbox"/>	

Examiner Signature	/Rodney Swartz/	Date Considered	08/05/2007
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